

# SAFETY DATA SHEET



Issue date 2 June 2023

FM000002-00.8+9

This Safety Data Sheet (SDS) has been prepared in accordance with the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) to provide safe handling information for the industrial setting such as in manufacturing facilities, transport, warehouses, stores and professional settings where product is used for institutional and commercial purposes. This SDS is designed to cover both U.S. and Canada, differences between U.S. and Canadian requirements are noted where applicable.

Consumer Products as defined by the U.S. Consumer Product Safety Act and Federal Hazardous Substances Act and which are used for the intended purpose in the household setting or in a workplace setting with typical consumer duration and frequency are exempted from the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200).

## Section 1: Identification of Product and Company

Product Name	Dishwasher Detergent Gel - Free & Clear
Synonyms	None
Product Use	Automatic Dishwashing
Restrictions on Use	Follow directions on the product label

Manufacturer Name	Seventh Generation, Inc.
Address	60 Lake Street, Burlington, VT 05401, USA

Emergency Telephone Number	U.S., Canada
Monday - Friday 8 am - 5 pm ET (except holidays)	1-800-211-4279
Outside these hours	1-800-255-3924 (ChemTel)

## Section 2: Hazards Identification

Classification	
U.S.	This product is considered hazardous under the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).
Canada	This product is considered hazardous under the WHMIS 2015.

Hazard Category	
Eye Damage/Irritation	Category 2B

Signal Word	
WARNING	

Hazard Statement(s)	
H320 Causes eye irritation	

Hazard Pictogram(s)	
None	

Precautionary Statement(s) - General	
If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.	

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<b>Precautionary Statement(s) - Prevention</b>
Wash hands thoroughly after handling.

<b>Precautionary Statement(s) - Response</b>
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

<b>Precautionary Statement(s) - Storage</b>
None

<b>Precautionary Statement(s) - Disposal</b>
None

<b>Hazards not otherwise identified</b>
None known

<b>Percent ingredients with unknown acute toxicity</b>
0% of the product consists of ingredients of unknown acute oral toxicity. Refer to Section 11.

## Section 3: Composition, Information on Ingredients

Regardless of hazard classification, Seventh Generation discloses all intentionally added ingredients and, if applicable, incidental ingredients.

Ingredient	Function	CAS Number <sup>1</sup>	Concentration <sup>1</sup>
aqua (water)	diluent	7732-18-5	80% - 100%
sodium citrate	water softener	68-04-2 / 6132-04-3	3% - 10%
C12-16 alcohols ethoxylated propoxylated	cleaning agent	69227-22-1 / 68439-51-0	1% to 5%
xanthan gum	thickener	11138-66-2	0.5% to 1.5%
sodium silicate	alkalinity builder	1344-09-8	0.1% to 1%
citric acid	pH adjuster	77-92-9	0.1% to 1%
protease (subtilisin) (aep)	enzyme cleaning agent	9014-01-1	<0.1%
amylase (aep)	enzyme cleaning agent	9000-90-2	<0.1%
benzisothiazolinone	preservative	2634-33-5	<0.01%
methylisothiazolinone	preservative	2682-20-4	<0.01%
May contain: (see product label)			
calcium chloride	enzyme stabilizer	10043-52-4	<0.1%

<sup>1</sup> Where ranges are shown, the exact concentration has been withheld as a trade secret. Where WITHHELD is shown, the CAS number has been withheld as a trade secret.

## Section 4: First Aid Measures

<b>Eye Contact</b>	Flush eyes with water immediately after contact. Contact a physician if irritation develops or persists.
<b>Skin Contact</b>	Rinse thoroughly with water. Call a physician if irritation or rash develops or persists.
<b>Ingestion</b>	Drink one glass of water or milk immediately. If prolonged nausea or pain occurs call a doctor.
<b>Inhalation</b>	If irritation occurs, remove to fresh air. If breathing is affected, call a physician.
<b>Notes to Physician</b>	Treat symptomatically.
<b>Most important symptoms and effects</b>	Acute exposure may result in eye irritation. Symptoms of acute exposure may include the following: redness and pain.

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## Section 5: Fire Fighting Measures

Suitable Extinguishing Media	As appropriate for surrounding fire. Use water, dry chemical, carbon dioxide or foam.
Unsuitable Extinguishing Media	Not available.
Specific Hazards arising from the chemical mixture	Not available.
Hazardous Combustion Products	Not available.
Protective Equipment and Precautions for Firefighters	Fire fighters should wear full protective clothing and self contained breathing apparatus as for surrounding fire.

## Section 6: Accidental Release Measures

<b>Personal Precautions</b>	
Industrial Setting	Wear appropriate personal protective equipment (refer to Section 8).
Environmental Precautions	Avoid entry into lakes, streams, ponds or public waterways.
<b>Methods for Containment and Cleaning Up</b>	
Industrial Setting	Before attempting clean up, refer to hazard data given. Material may be slippery if spilled and wet. Prevent spill from entering a waterway. Stop spill at source and contain material. Dispose liquid in accordance with all applicable local, state, and federal regulations.

## Section 7: Handling and Storage

<b>Safe Handling</b>	
Industrial Setting	Wear appropriate personal protective equipment (refer to section 8).
Safe Storage	KEEP OUT OF REACH OF CHILDREN AND PETS. Store in original container and keep container closed when not in use. Avoid freezing.
Storage Incompatibilities	None known.

## Section 8: Exposure Controls, Personal Protection

<b>Exposure Limits</b>	Occupational exposure limits	
<b>Component Information:</b>		
sodium silicate	1344-09-8	USA - PEL - 2 mg/m3 15 min TWA dusts (recommended by analogy with sodium hydroxide)
protease (subtilisin) (aep)	9014-01-1	ACGIH - TLV - 0.00006 mg/m3 Ceiling AOEC - Asthmagens - Sensitizer (324.010) NIOSH - 0.00006 mg/m3 STEL (60 min) CA, CT, HI, MI, MN, NY, TN, WA - OEL/PEL - 0.00006 mg/m3 STEL (60 min) AB, BC, MB, NB, NL, NT, NS, NU, ON, PE, QC, SK, YT - OEL - 0.00006 mg/m3 Ceiling
amylase (aep)	9000-90-2	AOEC - Asthmagens - Sensitizer (324.17)
calcium chloride	10043-52-4	Ontario - OEL - 5 mg/m3 TWA
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<b>Engineering Controls</b>	General ventilation.	
<b>Personal Protective Equipment (PPE)</b>		
<b>Industrial Setting</b>		
<b>Respiratory Protection</b>	None required under normal conditions. General ventilation required.	

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Eye Protection	Goggles or other protective eye wear may be worn for protection.
Skin Protection	Gloves may be worn for protection.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

## Section 9: Physical and Chemical Properties

Physical State	Liquid (gel).
Color	White
Clarity	Opaque
Odor	Unfragranced. Characteristic of the ingredients
Odor Threshold	Not available.

pH	7.2 - 8.0
Melting Point	Not available.
Freezing Point	Not available.
Initial Boiling Point and Boiling Range	Not available.
Flash Point	Not available. Aqueous Solution.
Evaporation Rate	Not available.
Upper Explosive Limit (UEL)	Not applicable.
Lower Explosive Limit (LEL)	Not applicable.
Vapor Pressure (mmHg)	Not available.
Specific Gravity (H <sub>2</sub> O = 1)	1.01- 1.08
Relative Density	Not available.
Vapor Density (Air = 1)	Not available.
Solubility in Water	Miscible
Partition Coefficient: n-octanol/water	Not available.
Auto-Ignition Temperature	Not available.
Decomposition Temperature	Not available.
Viscosity	Not available.
VOC (weight %)	Not available.

## Section 10: Stability and Reactivity

Reactivity	Not available.
Chemical Stability	Stable under normal conditions of use and storage.
Possibility of Hazardous Reactions	None known.
Conditions to Avoid	None known.
Incompatible Materials	
Industrial Setting	None known.
Hazardous Decomposition Products	None known.

## Section 11: Toxicological Information

Potential Route(s) of Exposure	Eyes. Skin. Ingestion.	
Effects of Acute Exposure		
Oral Toxicity	LD50 >5000 mg/kg, calculated based on ingredients.	
Dermal Toxicity	Not classified. No known effects based on ingredients.	
Inhalation Toxicity	Not classified. No known effects based on ingredients.	
Component Information <sup>1</sup> :		
aqua (water)	7732-18-5	Not applicable
sodium citrate	68-04-2 / 6132-04-3	LD50 acute oral (rat) 5400 mg/kg
C12-16 alcohols ethoxylated propoxylated	69227-22-1 / 68439-51-0	LD50 acute oral (rat) >2000 mg/kg
xanthan gum	11138-66-2	LD50 acute oral (rat) >5000 mg/kg

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sodium silicate	1344-09-8	LD50 acute oral (rat) 1960 mg/kg
citric acid	77-92-9	LD50 acute oral (rat) 5400 mg/kg
protease (subtilisin) (aep)	9014-01-1	LD50 acute oral (rat) 1800 mg/kg
amylase (aep)	9000-90-2	LD50 acute oral (rat) >7500 mg/kg
benzothiazolinone	2634-33-5	LD50 acute oral (rat) 1020 mg/kg
methylisothiazolinone	2682-20-4	LD50 acute oral (rat) 120 mg/kg
calcium chloride	10043-52-4	LD50 acute oral (rat) >2000 mg/kg
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<b>Eye Contact</b>	Mild Irritant, based on in-vitro data.	
<b>Skin Contact</b>	Not classified for skin irritation, based on ingredients.	
<b>Skin Sensitization</b>	Not classified for skin sensitization, based on ingredients.	
<b>Respiratory Sensitization</b>	Not classified for respiratory sensitization, based on ingredients.	
<b>Carcinogenicity</b>	Not classified - based on ingredients	
<b>NTP</b>	No Ingredients Listed	
<b>IARC</b>	No Ingredients Listed	
<b>OSHA</b>	No Ingredients Listed	
<b>Reproductive Effects</b>	Not classified - based on ingredients	
<b>Mutagenicity</b>	Not classified - based on ingredients	
<b>Specific Target Organ Toxicity - Single Exposure</b>	Not classified - based on ingredients	
<b>Specific Target Organ Toxicity - Repeat Exposure</b>	Not classified - based on ingredients	
<b>Aspiration Toxicity</b>	Not classified - based on ingredients	

1LD50 acute oral toxicity (rat) – This is a value provided by the raw material supplier or scientific literature. It is not a value generated by Seventh Generation by testing using rats. Seventh Generation uses alternative, non-animal based methods and scientific literature to determine the safety classification of our products and their ingredients.

## Section 12: Ecological Information

<b>Ecotoxicity</b>	Not available.
<b>Persistence and Degradability</b>	Biodegradable, based on ingredients.
<b>Bioaccumulative Potential</b>	No known significant effects or critical hazards.
<b>Mobility in Soil</b>	Not available.
<b>Environmental Fate</b>	No adverse effects expected.

## Section 13: Disposal Considerations

<b>Product Waste</b>	Any disposal must be in compliance with applicable local, state, provincial and federal laws and regulations.
<b>Industrial Setting</b>	When disposed as waste in its original form, this product is not considered hazardous waste under Federal regulations, however regulations may vary by state or province and may designate it as hazardous waste. Check with your local waste and waste water authorities. We are aware of the following state waste classifications:
<b>California Hazardous Waste Code</b>	561
<b>Connecticut Hazardous Waste Code</b>	CT04
<b>Michigan Liquid Waste Code</b>	MILIB
<b>Washington Hazardous Waste Code</b>	WT02
<b>Other States</b>	Any disposal must be in compliance with applicable local, state, provincial and federal laws and regulations.
<b>Empty Packaging</b>	Offer empty container for recycling. If recycling is not available, discard in trash.

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## Section 14: Transport Information

U.S. DOT	Not regulated.
U.S. States	See U.S. DOT for finished product classification for transport.
Waste	Regulated in some states if the product is disposed of in its original form as waste by commercial users/handlers. Refer to Section 13. for applicable state waste codes.
Canadian TDG (Surface Transport)	Not regulated.
IMDG (Marine Transport)	Not regulated.
IATA (Air Transport)	Not regulated.

## Section 15: Regulatory Information

U.S.	
Toxic Substances Control Act (TSCA)	This product complies with the inventory requirements of the U.S. Toxic Substances Control Act (TSCA).
California Prop 65	This product is not subject to the labeling requirements of California’s Proposition 65.
California Air Resources Board (CARB)	Not applicable.
Canada	
Domestic Substances List (DSL)	This product complies with the inventory requirements under Canada’s Domestic Substances List (DSL).
Right to Know	Regardless of hazard classification, all intentionally added ingredients and, if applicable incidental ingredients $\geq 1\%$ are disclosed on the product label. Please refer to Section 3. of this SDS for ingredient listing.
Component Information:	
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Other	Fragrances used in this product comply with applicable International Fragrance Association (IFRA) guidance.

## Section 16: Other Information

Hazardous Materials Identification System (HMIS) Rating  Legend: 4-Severe, 3-Serious, 2-Moderate, 1-Slight, 0-Minimal	<b>HEALTH</b>	/	<b>1</b>
	<b>FLAMMABILITY</b>		<b>0</b>
	<b>PHYSICAL HAZARDS</b>		<b>0</b>
	<b>PERSONAL PROTECTION</b>		<b>A</b>

National Fire Protection Association (NFPA) Rating	Not determined.
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## Consumer Product Information

Refer to the product label for use directions, safety information, septic compatibility and how to dispose of the empty packaging.

Visit [seventhgeneration.com](http://seventhgeneration.com) for additional tips on buying, using and handling household cleaning products.

Prepared by	Seventh Generation, Inc.
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Revision Note	General format update

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Please note: This product is manufactured and may be marketed for consumer use or professional use and should be used as directed on the product label for the intended purpose. This product conforms to our standard specification when released to the market and when used according to directions. To the best of our knowledge, the information contained herein is accurate. However, we do not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any product is the sole responsibility of the user. All products may present unknown hazards and should be used with requisite caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Other abbreviations used in this document:

- DOT – (U.S.) Department of Transportation
- EPA – (U.S.) Environmental Protection Agency
- IARC – International Agency for Research on Cancer
- NTP – (U.S. Department of Health and Human Services) National Toxicology Program
- OSHA – (U.S.) Occupational Safety and Health Administration
- TDG – (Canadian) Transport of Dangerous Goods
- WHMIS – (Canadian) Workplace Hazardous Materials Information System

**End of Safety Data Sheet**